
मछली पकड़ने के गियर की मार्गदर्शिका

भाग 20 : 21.7 मी (316 मेश) तली से

मछली पकड़ने वाले ट्रॉल जाल

(पहला पुनरीक्षण)

Guide for Fishing Gear

Part 20 : 21.7 m (316 Mesh) Bottom Fish Trawl Net

(First Revision)

ICS 65.150

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FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by Textile Materials for Marine/Fishing Purposes Sectional Committee had been approved by the Textile Division Council.

This standard was originally published in 1979 and has now been revised to incorporate the latest developments in this field.

This standard consists of number of parts. Part 1 deals with the general requirements while the subsequent parts cover different types of fishing gears.

The composition of the Committee responsible for the formulation of this standard is given in Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated, expressing the result of a test or analysis shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

GUIDE FOR FISHING GEAR

PART 20 : 21.7 m (316 MESH) BOTTOM FISH TRAWL NET

(*First Revision*)

1 SCOPE

This standard (Part 20) specifies guidelines for construction of 21.7 m (316 mesh) bottom fish trawl nets.

2 REFERENCES

The following standards contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of these standards indicated below.

<i>IS No.</i>	<i>Title</i>
4401 : 2006	Textiles — Twisted nylon fishnet twines (<i>fourth revision</i>)

*IS No.**Title*

5508 (Part 1) : 2020	Guide for fishing gear — General (<i>first revision</i>)
6347 : 2003	Textile — Polyethylene monofilament twines for fishing — Specification (<i>first revision</i>)
7533 : 2003	Textiles — Polyamide (nylon) monofilament yarn for fishing — Specification (<i>second revision</i>)

3 CONSTRUCTION

The particulars of webbing, ropes and other accessories used for construction of 21.7 m (316 mesh) bottom fish trawl nets are given in the data sheet when read with Fig.1.

IS 5508 (Part 20) : 2021

DATA SHEET FOR 21.7-m (316 MESH) BOTTOM FISH TRAWL NET												
NAME OF GEAR : 21.7 -m (316 MESH) BOTTOM FISH TRAWL NET							Vessel – Overall Length m, 19.81					Horse Power: 200-250
TYPE : Two –seam			LOCALITY: South West Coast of India				MAIN SPECIES CAUGHT: Perches, Scianids, Cat fish, Ray, etc.					
PARTICULARS OF WEBBING												
WEBBING	A	A _i	B	B _i	C	D	E	F	G	H	I	
Material	Polyethylene Monofilament Twisted										Nylon braid	
Type of knot	Trawl knot											
Preservation	Nil										Tarred	
Colour	As ordered											
Twine size, (dia) mm	2	2	2	2	2	2	2	2	2	3	4 double	
*Breaking strength, kg(N)	34 (333)	34 (333)	34 (333)	34 (333)	34 (333)	34(333)	34 (333)	34 (333)	34 (333)	68 (666)	165 (1617)	
Stretched mesh, mm	120	120	120	120	120	120	120	100	80	70	140	
Upper edge, m	33	8	24	8	190	53	158	161	88	132	70	
Lower edge, m	67	33	53	24	158	57	134	70	58	132	70	
Depth, m	65	16	65	16	24	24	24	90	105	186	20	
Cutting rate $\frac{Inner}{Outer}$	$1M\ 10\ B$ $1P\ 4B$	$All\ B$ $1P\ 2B$	$1M\ 10\ B$ $1P\ 6B$	$All\ B$ $All\ P$	– $1P\ 4B$	$1M\ 12\ B$ $All\ B$	– $1P\ 2B$	– $1P\ 2B$	– $3P\ 1B$	– $All\ P$	– $All\ P$	
Selvedge	3 Mesh double thread											
Hanging	$\frac{a}{A} = \frac{810}{78}$	$\frac{aI}{AI} = \frac{200}{198}$	$\frac{b}{B} = \frac{810}{780}$	$\frac{bI}{BI} = \frac{200}{198}$	$\frac{c}{C} = \frac{150}{678}$	$\frac{d}{D} = \frac{300}{288}$	$\frac{e}{E} = \frac{132}{528}$	–	–	–	–	
Total quantity, kg	116											
PARTICULARS OF LINES AND ROPES												
LINE/ROPE	a	aI	b	bI	c	d	e	f	g	h	i	
Material	Combination steel core										Polyethylene	
Preservation	NIL											
Diameter,mm	16	16	16	16	16	16	16	16	12	12	12	
Breaking strength, kg (N)	2200 (21560)								1200 (11760)	1200 (11760)	1200 (11760)	
Length, m	8 10	2 00	8 10	2 00	1 50	3 00	1 32	7 00	along bar	24	23	
PARTICULARS OF OTHER ACCESSORIES							OTHER INFORMATION					
ACCESORIES	FLOATS	SINKERS		SWEEP LINE	OTTER BOARDS		HEAD ROPE : 21.7 m FOOT ROPE : 27.4 m					
Number	11	–		2	2		1 IS 5508 (Part 1) : 2020 'Guide for fishing gear; Part 1 General' forms a preface to this part. 2 Reference may be made to IS 4401, IS 6347 and IS 7533 for relevant materials. *1 Newton is equivalent to 0.98 kgf					
Material	Plastic	Rubline		Steel wire	Iron & wood							
Shape	Spherical	–		–	Rectangular							
Diameter, mm	200	–		12	–							
Length, cm	–	2720		5000	175							
Breadth, cm	–	–		–	95							
Static buoyancy, kg	3.3	–		–	–							
Weight in air, kg (each)	0.91	85		–	225							

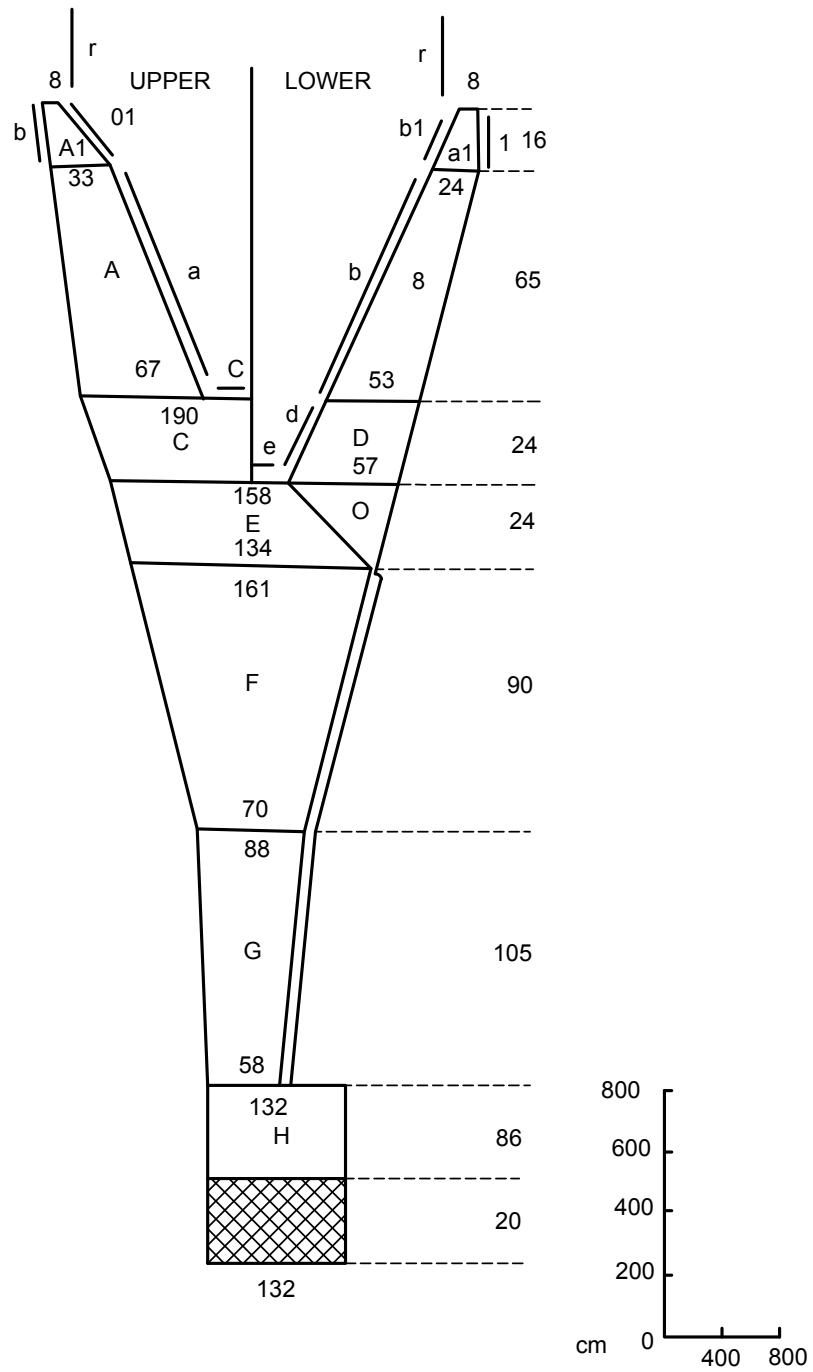


FIG. 1 21.7 M (316 MESH) BOTTOM FISH TRAWL NET

ANNEX A

(Foreword)

COMMITTEE COMPOSITION

Textile Materials for Marine/Fishing Purposes Sectional Committee, TXD 18

<i>Organization</i>	<i>Representative(s)</i>
ICAR-Central Institute of Fisheries Technology, Kochi	SHRIMATI (DR) SALY N. THOMAS (<i>Chairman</i>)
Association of Indian Fishery Industries, New Delhi	SHRI T. RAGUNATH REDDY DR C. BABU RAO (<i>Alternate</i>)
Centre for Marine Living Resources and Environment, Kochi	DR SHERINE SONIA CUBELIO DR HASHIM (<i>Alternate</i>)
Central Institute of Fisheries, Nautical and Engg Training, Kochi	SHRI M. G. MAKWANA
ICAR-Central Institute of Brackishwater Aquaculture, Chennai	SHRI JOSE ANTONY
ICAR-Central Institute of Fisheries Technology, Kochi	SHRIMATI (DR) SALY N. THOMAS DR SANDHYA K. M. (<i>Alternate</i>)
ICAR-Central Marine Fisheries Research Institute, Kochi	DR RATHEESH
Fisheries Development Commissioner, New Delhi	DR PAUL PANDIYAN DR SANJAY PANDEY (<i>Alternate</i>)
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National Institute of Ocean Technology, Chennai	DR G. DHARANI DR N. V. VINITHKUMAR (<i>Alternate</i>)
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SRFP Limited, Chennai	SHRI N. SANTHAN SHRI R. RAGHVENDRA SAYEE (<i>Alternate</i>)
The Synthetic and Art Silk Mills' Research Association, Mumbai	SHRIMATI ASHWINI A. SUDAM SHRI RAVI PRAKASH SINGH (<i>Alternate</i>)
The Karnataka Fisheries Development Corporation Ltd, Bangaluru	MANAGING DIRECTOR
The Kerala State Cooperative Federation for Fisheries Development Ltd, Kochi	SHRI P. SURENDREN
The Marine Products Export Development Authority, Kochi	DR M. K. RAMMOHAN SHRI A. SAKTHIVEL (<i>Alternate</i>)
BIS Directorate General	SHRI A. K. BERA, SCIENTIST 'F' AND HEAD (TXD) [REPRESENTING DIRECTOR GENERAL (<i>Ex-officio</i>)]

*Member Secretary*SHRI A. K. BERA
SCIENTIST 'F' AND HEAD (TEXTILES), BIS

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Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

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